

May 14, 2010

ADDENDUM 2.0 TO THE QUALITY ASSURANCE SAMPLING PLAN
WATER AND SEDIMENT SAMPLING AND MONITORING
FOR THE
DEEPWATER HORIZON INCIDENT

This is an addendum to the Quality Assurance Sampling Plan (QASP) that was developed for the purpose of assessing the impacts of the Deepwater Horizon Incident on the water and sediment quality of southeast Louisiana.

The purpose of this field reconnaissance and sampling effort:

To collect free oil globules and/or surface oil at near shore surface water locations (i.e., within 100 feet of the shoreline) where oil and/or an oily sheen is visible. The data will be used to characterize the oil and dispersant mixture that is reaching the shoreline.

Sample collection, documentation, analytical methods will be conducted using the Quality Assurance Sampling Plan for Water and Sediment Sampling and Monitoring for the Deepwater Horizon Incident, May 5, 2010. The QASP is being amended as follows: 1) to include the collection of near shore oil and dispersant samples from shallow surface water, 2) sampling locations will be based on visible observation of surface oil by field staff, 3) sampling methods will be used that maximize the volume of oil collected and minimize the volume of water and sediment collected per sample, and 4) analyses and sample volumes for the near shore oil and dispersant samples will be adjusted as described in the attached table below.

START personnel will collect the near shore oil samples for EPA. Surface water will be inspected for the visual presence of oil globules and surface oil. Up to 20 surface water samples may be collected over a period of time as directed by the EPA OSC and will be submitted to the EPA Houston Lab for analysis. The EPA Houston address is:

US EPA Houston Laboratory
10625 Fallstone Rd
Houston, Texas 77099
Attn: Ms Christy Warren (281)-983-2137

Samples will be analyzed for:

- Total Compound List Volatile Organic Compounds (TCL VOCs) by SW-846 Method 8260B.
- TCL Semivolatile Compounds (SVOCs including polynuclear Aromatic Hydrocarbons (PAHs) by SW-846 Method 8270C.
- Total Analyte List (TAL) Metals by SW-846 Method 6010B.

- Total Petroleum Hydrocarbons – Diesel and Oil Range Organics (TPH DRO/ORO) by SW-846 Method 8015B.
- TICs for straight chain hydrocarbons
- Oil and Grease by EPA 1664.
- 2-ethylhexyl alcohol (method to be determined by lab)
- 2-Butoxyethyl alcohol / 2-Butoxyethanol (method to be determined by lab)
- Propylene glycol (method to be determined by lab)
- Di(2-ethylhexyl) sodium sulfosuccinate (method to be determined by lab)
- 2-propanol, 1-(2-butoxy-1-methylethoxyl)

Changes to sample volumes and containers are noted in the following table.

Requirements for Containers, Preservation Techniques, Volumes, and Holding Times
Deepwater Horizon Incident
Near Shore Oil Samples

Name	Analytical Methods	Matrix	Container	Preservation	Minimum Volume or Weight	Maximum Holding Time
TCL VOCs	SW846 8260B	Water / Solid	Glass, (Teflon-lined septum for water)	4°C, HCl to pH<2 (pH adjust for water only)	4 x 40 mL vials (water, 4 oz (solid))	14 days (7 days if unpreserved by acid for water)
TCL SVOCs	SW846 8270C	Water / Solid	Amber Glass, (Teflon-lined for water)	4°C	2 x 1 liter, 8 oz	7 days extract (water), 14 days (solid)/ 40 days analysis
TAL Metals	SW846 6010B	Water / Solid	High Density Polyethylene (water), Glass (solid)	HNO ₃ to pH<2 (water), 4°C	1 liter, 8oz	28 days for mercury 180 days all other metals
TPH DRO and ORO	SW846 8015B	Water / Solid	Amber Glass, (Teflon-lined for water)	4°C	2 x 1 liter, 4 oz	7 days extract (water), 14 days (solid)/ 40 days analysis
Oil & Grease	SW846 9071B/EPA 1664	Water / Solid	Amber glass (water) Glass (Solid)	HCl to pH<2 (water), 4°C	1 liter, 8 oz	7 days extract (water), 14 days (solid) 40 day analysis

Name	Analytical Methods	Matrix	Container	Preservation	Minimum Volume or Weight	Maximum Holding Time
Propylene glycol Di(2-ethylhexyl) sodium sulfosuccinate 2-propanol, 1-(2-butoxy-1-methylethoxy) 2-ethylhexyl alcohol 2-Butoxyethyl alcohol / 2-Butoxyethanol	(method to be determined by lab)	Water/ Solid	Glass, (Teflon-lined septum for water)	4°C	2 x 40 mL vials (water, 4 oz (solid))	N/A

This addendum also includes a change in the turnaround times for the analytical results requested for near shore oil samples from a 24-hour turnaround time to a 5-day turnaround time.

The remaining portions of the QASP are still in effect.